



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 8/16/2010
Subject: Review of Region 5 Data for R06 Deep Water Chalmette
From: David Schroeder *DS for Larry Zintek.*
Region 5 Chicago Regional Laboratory
To: Region 6, US EPA
10625 Fallstone Road
Houston, TX 77099

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-7444 for any comments or questions.

Attached are Results for: R06 Deep Water Chalmette

_____/_____/_____
Data Management Coordinator and Date Received

Date Transmitted: ____/____/____

Analyses included in this report:

RAM-DOSS



Environmental Protection Agency Region 5 Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Region 6, US EPA
10625 Fallstone Road
Houston TX, 77099

Project: R06 Deep Water Chalmette
Project Number: T0033-100402-20100810-05
Project Manager: Kristie Warr

Reported:
Aug-16-10 14:33

ANALYSIS CASE NARRATIVE

Analyst: Larry Zintek (312) 886-2925

General Information

Fifteen samples were received by the Chicago Regional Laboratory for dioctyl sulfosuccinate (DOSS) analysis on August 12, 2010. Samples from Work Order 1008028 were received in 40 mL VOA vials labeled HCl preserved. The pH was checked at CRL with pH paper and the samples were not below a pH of 6. The contractor was contacted and indicated that the vials used contained HCl and were rinsed with surface water to remove the acid before sampling. The samples were received at or less than 6°C.

Sample Analysis and Results

Analysis of dioctyl sulfosuccinate in water by LC/MS/MS was carried out using CRL Region 5 Regional Analytical Method for Dioctyl Sulfosuccinate (RAM-DOSS, CAS 577-11-7) in Sea Water by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). None of the sample results were above the DOSS detection verification level (6 ppb) or the reporting level (20 ppb).

The 1008025, 1008026, 1008027 and 1008028 supporting data are stored with 1008023.

Quality Control

All quality control criteria not mentioned met acceptance limits stated in the Draft Procedure.



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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T005-0016-100810-SW-1	1008025-01	Water	Aug-10-10 11:20	Aug-12-10 09:45
T005-0016-100810-SW-2	1008025-02	Water	Aug-10-10 11:20	Aug-12-10 09:45
T005-0017-100810-SW-1	1008025-03	Water	Aug-10-10 12:35	Aug-12-10 09:45
T005-2317-100810-SW-1	1008025-04	Water	Aug-10-10 10:35	Aug-12-10 09:45



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Analysis by LC MS MS

US EPA Region 5 Chicago Regional Laboratory

T005-0016-100810-SW-1 (1008025-01) Water Sampled: Aug-10-10 11:20 Received: Aug-12-10 09:45

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100857	Aug-12-10	Aug-12-10

Surrogate: DOSS-D34 154 88.6 % 50-150 " " "

T005-0016-100810-SW-2 (1008025-02) Water Sampled: Aug-10-10 11:20 Received: Aug-12-10 09:45

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100857	Aug-12-10	Aug-12-10

Surrogate: DOSS-D34 154 86.5 % 50-150 " " "


T005-0017-100810-SW-1 (1008025-03) Water Sampled: Aug-10-10 12:35 Received: Aug-12-10 09:45

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100857	Aug-12-10	Aug-12-10

Surrogate: DOSS-D34 173 86.3 % 50-150 " " "

T005-2317-100810-SW-1 (1008025-04) Water Sampled: Aug-10-10 10:35 Received: Aug-12-10 09:45

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
dioctyl sulfosuccinate	U	U		20.0	ug/L	1	B100857	Aug-12-10	Aug-12-10


David Schroeder, Chemist



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T005-2317-100810-SW-1 (1008025-04) Water Sampled: Aug-10-10 10:35 Received: Aug-12-10 09:45

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: DOSS-D34	162			89.8 %		50-150	B100857	Aug-12-10	Aug-12-10


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Analysis by LC MS MS - Quality Control US EPA Region 5 Chicago Regional Laboratory

Batch B100857 - *** DEFAULT PREP ***

Blank (B100857-BLK1)

Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L						

Surrogate: DOSS-D34 296 " 202.0 146 50-150

LCS (B100857-BS1)

Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	207			20.0	ug/L	200.0		104	50-150		

Surrogate: DOSS-D34 214 " 200.0 107 50-150

LCS Dup (B100857-BSD1)

Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	215			20.0	ug/L	205.1		105	50-150	3.84	30

Surrogate: DOSS-D34 221 " 205.1 108 50-150



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Batch B100857 - *** DEFAULT PREP ***

Duplicate (B100857-DUP1)				Source: 1008025-04				Prepared & Analyzed: Aug-12-10			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 162 " 181.8 89.3 50-150

Duplicate (B100857-DUP2)				Source: 1008026-01				Prepared & Analyzed: Aug-12-10			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	U	U		20.0	ug/L		U				200

Surrogate: DOSS-D34 125 " 173.9 71.8 50-150

Matrix Spike (B100857-MS1)				Source: 1008025-04				Prepared & Analyzed: Aug-12-10			
Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	146			20.0	ug/L	178.6	U	81.7	50-150		

Surrogate: DOSS-D34 145 " 178.6 81.2 50-150

Matrix Spike (B100857-MS2) Source: 1008026-01 Prepared & Analyzed: Aug-12-10



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Batch B100857 - *** DEFAULT PREP ***

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	110			20.0	ug/L	173.9	U	63.3	50-150		
Surrogate: DOSS-D34	114				"	173.9		65.7	50-150		

Matrix Spike Dup (B100857-MSD1) Source: 1008025-04 Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	141			20.0	ug/L	173.2	U	81.3	50-150	3.52	30
Surrogate: DOSS-D34	151				"	173.2		87.2	50-150		

Matrix Spike Dup (B100857-MSD2) Source: 1008026-01 Prepared & Analyzed: Aug-12-10

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
dioctyl sulfosuccinate	107			20.0	ug/L	173.9	U	61.6	50-150	2.75	30
Surrogate: DOSS-D34	111				"	173.9		63.5	50-150		



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Notes and Definitions

U Not Detected
NR Not Reported